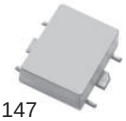
POWER DIVIDERS
0° : 2-WAY

LEADLESS SURFACE-MOUNT


133


134


147

FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
0.1 - 100	25/20	25/22	23/20	0.2/0.4	0.25/0.6	0.4/1.0	2.0	2.0	2.0	0.2	0.2	0.2	133	3	**SPD-C2**
1 - 500	35/25	32/25	30/20	0.3/0.6	0.35/0.7	0.6/1.0	2.0	3.0	4.0	0.2	0.3	0.3	133	3	**SPD-C1**
2 - 300	25/20	30/20	25/20	0.5/0.9	0.6/0.8	0.8/1.0	3.0	4.0	5.0	0.4	0.5	0.5	134	1	**SD-1**
5 - 500	25/20	30/20	25/20	0.4/0.7	0.5/0.8	0.6/1.0	3.0	4.0	5.0	0.4	0.4	0.6	134	2	**SD-2**
10 - 1000	25/20	30/17	25/17	0.5/0.8	0.6/1.0	1.0/1.5	2.0	4.0	7.0	0.4	0.5	0.7	134	2	**SD-3**
10 - 1000	25/20	30/20	25/17	0.5/0.8	0.6/1.0	1.0/1.5	2.0	4.0	7.0	0.4	0.5	0.7	147	4	**SPD-M-3**
10 - 1000	22/19	19/17	18/15	0.4/0.8	0.7/1.2	1.2/1.5	2.0	3.0	5.0	0.2	0.3	0.5	133	3	**SPD-C5**
400 - 2700	-/-	-/-	25/20	-/-	-/-	1.0/1.5	-/-	-/-	6.0	-/-	-/-	0.5	133	3	**SPD-C12Φ**
500 - 1500	20/15	20/15	20/15	0.6/0.8	0.7/0.8	0.8/1.0	3.0	4.0	5.0	0.3	0.4	0.5	133	3	**SPD-C4**
700 - 1000	20/15	20/15	20/15	0.6/0.8	0.6/0.8	0.8/1.0	3.0	4.0	5.0	0.3	0.4	0.5	133	3	**SPD-C3**

LEADLESS SURFACE-MOUNT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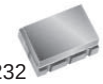
232


133


218


124S

FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB TYP/MAX	MB TYP/MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
850 - 960	-/-	-/-	27/20	-/-	-/-	0.6/1.0	-/-	-/-	5.0	-/-	-/-	0.4	133	3	**SPD-C1-2Φ**
1600 - 1700	-/-	-/-	26/21	-/-	-/-	0.8/1.2	-/-	-/-	3.0	-/-	-/-	0.6	133	3	**SPD-C7Φ**
1600-1900	-/-	-/-	24/18	-/-	-/-	0.3/0.5	--	--	2.0	--	--	0.2	218	6	**SPD-C10Φ**
1725 - 1900	-/-	-/-	25/20	-/-	-/-	0.4/0.6	-/-	-/-	4.0	-/-	-/-	0.4	124S	5	**DSS-927Φ**
2000 - 2100	-/-	-/-	26/21	-/-	-/-	0.4/0.6	-/-	-/-	3.0	-/-	-/-	0.6	133	3	**SPD-C8Φ**
2000 - 2200	-/-	-/-	25/20	-/-	-/-	0.8/1.2	-/-	-/-	3.0	-/-	-/-	0.6	124S	5	**DSS-928Φ**
2200 - 2400	-/-	-/-	25/20	-/-	-/-	0.8/1.2	-/-	-/-	3.0	-/-	-/-	0.6	124S	5	**DSS-929Φ**
800 - 1000	-/-	-/-	20/14	-/-	-/-	0.5/0.8	-/-	-/-	5.0	-/-	-/-	0.5	232	6	**M2D810Φ**
1800 - 2200	-/-	-/-	20/15	-/-	-/-	0.5/1.0	-/-	-/-	6.0	-/-	-/-	0.7	231	6	**M2D1822Φ**
2000 - 2550	-/-	-/-	20/15	-/-	-/-	0.5/1.0	-/-	-/-	6.0	-/-	-/-	0.7	231	6	**M2D2025Φ**

Notes:
Power Rating(All Models) = 1 watt, max
Φ (UB) - Denotes full bandwidth specification
For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

PIN-OUT TABLE

	INPUT	OUTPUT	*GROUND
#1	2	4,6	1,3,5
#2	6	3,4	1,2,5
#3	3	1,2	4,5,6
#4	1	2,4	3
#5	1	4,16	All other
#6	1	2,3	All other

*GROUND = Ground externally

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SYNERGY® MICROWAVE CORPORATION

POWER DIVIDERS
0° : 2-WAY

LEADED SURFACE-MOUNT


134J


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FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
2 - 300	25/20	30/20	25/20	0.5/0.9	0.6/0.8	0.8/1.0	3.0	4.0	5.0	0.4	0.5	0.5	159	1	**SDL-1**
2 - 500	35/18	35/25	27/20	0.3/0.8	0.3/0.6	0.5/1.0	1.0	2.0	3.0	0.15	0.2	0.3	159	2	**SDL-173 ■**
2 - 1000	35/25	27/17	23/17	0.5/0.6	0.7/0.9	1.2/1.5	1.0	2.0	4.0	0.2	0.3	0.6	159	2	**SDL-100**
5 - 500	25/20	30/20	25/20	0.4/0.7	0.5/0.8	0.6/1.0	3.0	4.0	5.0	0.4	0.4	0.6	159	2	**SDL-2**
5 - 750	25/18	30/23	23/17	0.6/1.4	0.8/1.6	1.5/1.8	1.0	3.0	5.0	0.2	0.3	0.5	159	2	**SDL-174 ■**
5 - 500	25/20	30/20	25/20	0.4/0.7	0.5/0.8	0.6/1.0	3.0	4.0	5.0	0.4	0.4	0.6	134J	2	**SDZ-2**
10 - 1000	25/20	30/17	25/17	0.5/0.8	0.6/1.0	1.0/1.5	2.0	4.0	7.0	0.4	0.5	0.7	159	2	**SDL-3**
10 - 1000	25/20	30/17	25/17	0.5/0.8	0.6/1.0	1.0/1.5	2.0	4.0	7.0	0.4	0.5	0.7	134J	2	**SDZ-3**
20 -2000	20/15	20/15	25/15	0.6/0.8	0.7/1.0	0.8/1.5	2.0	3.0	5.0	0.2	0.3	0.5	159	2	**SDL-6**
500 -1500	20/15	20/15	18/13	0.6/0.8	0.7/0.8	1.0/1.4	3.0	4.0	7.0	0.3	0.4	0.7	159	2	**SDL-4 ♦**
700 - 900	-/-	-/-	23/20	-/-	-/-	0.5/0.8	-/-	-/-	2.0	-/-	-/-	0.5	134J	2	**SDZ-125⌖**
1200 -1600	-/-	-/-	25/18	-/-	-/-	1.0/1.5	-/-	-/-	3.0	-/-	-/-	0.3	159	2	**SDL-5⌖**
1700 -2500	-/-	-/-	20/16	-/-	-/-	0.8/1.3	-/-	-/-	10	-/-	-/-	0.9	159	2	**SDL-7⌖**

New! SYNSTRIP® SURFACE MOUNT


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245

FREQUENCY RANGE (MHz)	ISOLATION (dB) Full Band TYP/MIN	INSERTION LOSS (dB) Full Band TYP/MAX	PHASE UNBALANCE (Degrees) Full Band TYP/MAX	AMPLITUDE UNBALANCE (dB) Full band TYP/MAX	VSWR TYP/MAX	PACKAGE	PIN-OUT (See Below)	MODEL
650 - 1200	22/12	0.2/0.3	1.0/2.0	±0.15/0.20	1.3/1.5:1	234	3	**S2D6512****
800 - 1200	25/20	0.2/0.4	1.0/2.0	±0.2/0.4	1.3/1.4:1	234	3	**S2D8120¥§**
1400 - 2600	20/12	0.3/0.4	1.0/2.0	±0.20/0.25	1.3/1.5:1	245	3	**S2D1426****
2000 - 2500	25/18	0.3/0.4	1.0/2.0	±0.2/0.4	1.3/1.4:1	234	3	**S2D2025¥**

Notes:
■ 75 Ohm Model
Power Rating(All Models) = 1 watt, max
♦ LB = 500-700 MHz, MB = 750-1000 MHz, UB = 1000-1500 Mhz
⌖ (UB) - Denotes full bandwidth specification
* Expanded frequency range available
§ Expanded frequency range available
** 50 Ohms, 5 Watts with mismatch of 1.2:1 or less
¥ 50 Ohms, 10 Watts with mismatch of 1.2:1 or less

PIN-OUT TABLE

	INPUT	OUTPUT	*GROUND
#1	2	4,6	1,3,5
#2	6	3,4	1,2,5
#3	1	2,3	All other

*GROUND = Ground externally

For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

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POWER DIVIDERS
0° : 2-WAY

THROUGH HOLE MOUNT (8 Pin-Relay Can)


102


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FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
0.004-60	27/20	30/20	27/20	0.3/0.6	0.3/0.6	0.6/1.0	2.0	3.0	4.0	.15	.25	0.3	102	1	**DSP-2B1**
0.01-100	30/20	27/20	25/20	0.3/0.6	0.3/0.5	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.2	102	1	**DSP-201**
0.1-400	20/15	25/20	25/20	0.2/0.6	0.4/.75	0.6/1.0	2.0	3.0	4.0	.15	0.2	0.3	102	1	**DSP-2A3**
0.25-300	20/15	30/20	20/15	0.4/.75	0.4/.75	0.4/1.0	2.0	3.0	5.0	.15	0.2	0.3	102	1	**DSP-2A2** ■
0.5-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	3.0	0.2	0.2	0.2	103	1	**DSP-202**
1-400	28/20	28/20	25/20	0.4/.65	0.5/0.8	0.7/1.0	3.0	3.0	4.0	0.3	0.3	0.3	103	1	**DSP-209**
1-650	30/20	28/20	25/20	0.4/0.5	0.4/0.8	0.8/1.0	2.0	3.0	5.0	.15	0.2	0.3	102	1	**DSP-222**
5-2000	21/16	22/18	19/14	0.2/0.5	0.5/0.8	0.8/1.1	1.0	3.0	5.0	0.2	0.4	0.6	102	1	**DSP-2A6**
10-850	31/20	32/23	23/15	0.3/0.5	0.4/0.6	0.5/1.0	2.0	5.0	10.0	0.1	0.2	0.5	102	1	**DSP-2D4** ■
10-1000	30/20	28/20	25/20	0.2/0.5	0.6/1.0	0.9/1.2	2.0	4.0	6.0	0.2	0.2	0.4	102	1	**DSP-212**
10-1000	30/25	25/20	25/20	0.6/1.0	0.6/1.2	0.7/1.2	2.0	8.0	10.0	.15	0.2	0.4	102	1	**DSP-2C4**
10-1400	28/18	22/17	24/17	0.3/0.6	0.6/1.0	0.9/1.6	2.0	3.0	4.0	.15	0.2	0.4	102	1	**DSP-2A5**

MINI RELAY HEADER (4-Pin and 8 Pin)


105


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FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
0.1-450	20/15	30/20	30/20	0.3/0.5	0.4/.75	0.6/1.0	2.0	3.0	4.0	.15	0.2	0.3	107	1	**DSP-4B4**
1-400	30/25	30/25	30/20	.25/0.5	0.5/.75	0.7/1.0	2.0	3.0	4.0	.15	0.2	0.6	106	2	**DSP-3C3**
1-400	28/20	28/20	25/20	0.4/.65	0.5/0.8	0.7/1.0	3.0	3.0	4.0	0.3	0.3	0.3	105	2	**DSP-309**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.3	105	2	**DSP-302**
1-400	28/20	28/20	25/20	0.4/.65	0.5/0.8	0.7/1.0	3.0	3.0	4.0	0.3	0.3	0.3	107	1	**DSP-409**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/2.0	2.0	2.0	2.0	0.2	0.2	0.3	107	1	**DSP-402**
2-650	22/18	30/20	22/18	0.3/0.5	0.5/0.8	0.8/1.2	1.0	2.0	4.0	0.3	0.2	0.3	107	1	**DSP-4A4**
5-1500	18/16	20/16	20/14	0.6/0.8	0.6/0.8	0.6/1.1	2.0	3.0	5.0	0.2	0.3	0.4	107	1	**DSP-4A5**

FLAT-PACK

FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1-500	25/20	30/20	30/20	0.4/0.7	0.4/0.7	0.5/1.2	2.0	2.0	3.0	0.2	0.2	0.2	101	3	**DSF-102**
2-1500	25/20	25/20	18/15	0.8/1.3	0.5/1.0	1.0/1.5	2.0	4.0	8.0	0.2	0.3	0.4	101	3	**DSF-103**
5-1000	30/20	30/23	25/20	0.3/0.5	0.5/0.8	0.6/1.0	3.0	2.0	5.0	0.2	0.2	0.2	101	3	**DSF-109**

Notes: ■ 75 Ohm Model
Power Rating(All Models) = 1 watt, max
For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

PIN-OUT TABLE

	INPUT	OUTPUT	CASE GROUND
#1	1	5,6	All Other
#2	1	2,4	3
#3	8	1,5	All other

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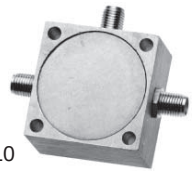
110

COAXIAL CONNECTOR

FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
0.01-100	30/20	27/20	25/20	0.3/0.6	0.3/0.5	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.2	110	1	**DSK-701***
0.25-300	20/15	30/25	25/20	0.4/.75	0.4/.75	0.4/1.0	2.0	3.0	5.0	.15	0.2	0.3	110	1	**DSK-7A2B ■**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	3.0	0.2	0.2	0.2	110	1	**DSK-702***
1-750	30/20	28/20	25/20	0.2/0.5	0.4/0.8	0.8/1.0	2.0	4.0	4.0	.15	.15	0.3	110	1	**DSK-7E4***
2-200	35/30	35/30	35/30	0.2/0.5	0.3/0.5	0.4/0.5	1.0	1.0	1.0	0.2	0.2	0.2	110	1	**DSK-7M2***
2-1500	25/20	25/20	25/20	0.8/1.3	0.6/1.2	0.5/1.5	2.0	4.0	6.0	0.2	0.2	0.3	110	1	**DSK-703***
5-400	40/30	38/30	35/30	0.2/0.4	0.3/0.5	0.4/0.5	2.0	2.0	2.0	0.2	0.2	0.2	110	1	**DSK-718***
5-500	35/30	40/30	35/30	0.3/0.5	0.3/0.5	0.4/.65	2.0	2.0	3.0	0.2	0.2	0.2	110	1	**DSK-717***
10-1000	30/20	30/20	25/20	0.2/0.5	0.5/1.0	0.9/1.2	2.0	3.0	5.0	.15	.15	0.3	110	1	**DSK-712***
10-1000	30/25	33/25	30/25	0.2/0.5	0.4/0.7	0.6/0.8	2.0	2.0	3.0	0.2	0.2	0.25	110	1	**DSK-709***

COAXIAL CONNECTOR


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FREQUENCY RANGE	ISOLATION (dB) LB	MB	UB	INSERTION LOSS (dB) LB	MB	UB	PHASE UNBALANCE (Degrees) LB	MB	UB	AMPLITUDE UNBALANCE (dB) LB	MB	UB	PACKAGE	PIN-OUT (See	MODEL
5-2000	25/20	25/20	23/15	0.6/0.9	0.9/1.4	1.2/1.8	2.0	3.0	5.0	0.2	0.3	0.4	144	2	**DSK-726S**
700-900	-/-	-/-	30/24	-/-	-/-	0.3/1.0	-	-	5.0	-	-	0.5	164	2	**DSK-724S✞**
800-2200	-/-	-/-	22/20	-/-	-/-	0.4/0.5	-	-	2.0	-	-	0.4	215	2	**DSK-729S✞**
800-2400	-/-	-/-	20/18	-/-	-/-	0.6/0.8	-	-	4.0	-	-	0.5	206	2	**DSK-H3N✞**
1700-2200	-/-	-/-	20/18	-/-	-/-	0.3/0.4	-	-	3.0	-	-	0.3	220	2	**DSK-H1N✞**

Power Rating (All Models) = 1 Watt, max
* Select female connector suffix: "B" = BNC, "S" = SMA, "N" = Type N, "T" = TNC
■75 Ohm Model
✞ (UB) - Denotes full bandwidth specification
For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

PIN-OUT TABLE

	INPUT	OUTPUT	CASE GROUND
#1	2	1,3	--
#2	1	2,3	--

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POWER DIVIDERS
0° : 2-WAY

THROUGH HOLE (TO-8 and TO-5)


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FREQUENCY RANGE (MHz)	ISOLATION (dB) LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	INSERTION LOSS (dB) LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	PHASE UNBALANCE (Degrees) LB MAX	MB MAX	UB MAX	AMPLITUDE UNBALANCE (dB) LB MAX	MB MAX	UB MAX	PACKAGE	PIN-OUT (See Below)	MODEL
0.01-100	30/20	27/20	25/20	0.3/0.6	0.3/0.5	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.2	122	3	**DSP-601**
1-100	37/30	35/30	35/30	0.2/0.5	0.3/0.5	0.4/0.5	1.0	1.0	1.0	0.1	0.1	0.1	127	2	**DSP-8D1**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	3.0	0.2	0.2	0.2	122	3	**DSP-602**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.2	104	1	**DSP-502**
1-500	25/20	30/23	30/20	0.4/0.6	0.4/0.7	0.5/1.0	2.0	2.0	2.0	0.2	0.2	0.2	126	3	**DSP-802**
10-1000	25/20	30/20	25/20	0.2/0.5	0.5/0.8	0.6/1.0	3.0	2.0	4.0	0.2	0.2	0.3	122	3	**DSP-609**

Power Rating (All Models) = 1 Watt, max
For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

PIN-OUT TABLE

	INPUT	OUTPUT	CASE GROUND
#1	8	11,5	All Other
#2	3	2,4	1,5
#3	3	2,4	1

201 McLean Boulevard • Paterson, New Jersey 07504 • Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com

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